Table S1. Summary of LP research cases, performance dimensions, SEM analysis methods and data sources.

Year	Author	Study place	Scale			Performance dimensions						SEM analysis methods				Data sources						
							Built environment performance		Recognizing environment performance							Evaluation data based on cognitive analysis			Environmental data based on objective measurements			Subjective and objective combination
			Country	City/Region	Block	Ecological environment performance	Spatial Ontology Composition Mechanisms	Spatial Resource Allocation Efficiency	Cognitive Preference Evaluation	Physiological Health Assessment	Behavioral Perception Feedback	Correlation mechanism analysis	Mediation effect analysis	Multi-group analysis	Multitype measurements	Social surveys	Photographic annotations	Behavioral records	Measurement sampling	Audit tools	Open Source Data	
2022	Li et al.	China			X		X					X							X			
2021	Le et al.	Vietnam		X						X			X	X		X				X		X
2020	Yin et al.	China	X								X	X				X						
2021	Wang et al.	China	X				X						X						X	X		
2023	Zeng et al.	China		X							X		X			X						
2022	Tleuken et al.	Multiple countries	X						X					X		X						
2022	Li et al.	China		X						X			X	X		X			X			X
2022	Lucchesi et al.	Brazil		X				X						X		X					X	X

2022	Kroesen & van Wee	Netherlands	X							X		X						X		X		X
2018	Xiao et al.	China		X				X					X	X		X				X		X
2022	Ma & Ye	Australia		X						X		X				X						
2015	Etminani-Ghasrodashti & Ardeshiri	Iran		X							X	X				X			X			X
2017	Liu et al.	China		X				X					X			X		X	X			X
2022	Han et al.	Korea		X					X				X			X						
2020	Yin et al.	China		X				X					X	X						X	X	
2022	Tleuken et al.	Multiple countries	X						X			X				X						
2021	Smith & Blizard	America	X					X				X	X						X	X		
2022	Losada-Rojas et al.	America	X						X			X				X			X			X
2017	Ding et al.	America		X							X		X		X			X	X			X
2017	Ding et al.	America		X				X					X						X			
2023	Kodali et al.	America			X				X				X			X						
2020	Xue et al.	China		X					X			X								X		
2019	Asman et al.	Ghana	X				X					X				X						
2022	Kajosaari et al.	Finland		X							X	X						X				
2023	Ashik et al.	Bangladesh		X				X					X			X						
2022	Yue et al.	China		X						X			X			X						
2021	Hatamzadeh et al.	Iran		X							X	X				X						
2022	Gim	Korea		X							X		X							X		
2022	Li et al.	China			X				X			X				X						
2017	Choi & Zhang	America		X				X				X							X			
2022	Chen et al.	China		X					X				X			X			X			X
2022	Chen et al.	China		X							X		X			X			X			X

2018	Yang & Cao	China			X			X					X						X		X	
2022	Cao et al.	China			X						X		X			X						
2018	Ding et al.	America		X							X		X			X			X			X
2020	He et al.	China		X							X	X				X						
2020	Qiao et al.	China		X				X					X			X			X			X
2022	Yin et al.	China		X							X		X			X			X			X
2018	Bigazzi & Gehrke	Canada		X						X		X				X						
2022	Mu et al.	China		X					X			X				X						
2023	Zhao et al.	China		X						X			X	X							X	
2018	Yang et al.	China			X			X					X			X					X	X
2015	Nyunt et al.	Singapore			X						X	X			X	X			X			X
2021	Zhang et al.	China		X				X					X			X			X			X
2022	Xue & Yao	China		X				X					X							X		
2021	Gao & Nagai	China		X					X			X		X		X	X					
2021	Peng et al.	China		X							X	X				X			X			X
2021	Heng & Zhang	China			X		X					X						X	X			X
2022	Zhu et al.	China	X					X				X				X					X	X
2022	Liu et al.	China			X						X		X	X		X						
2018	Han et al.	Korea			X		X					X				X						
2018	Hamidi et al.	America		X						X			X						X	X		
2020	Li et al.	China			X				X				X			X						
2021	Ramezani et al.	Finland		X							X	X				X		X				
2021	Kaya et al.	Netherlands	X					X							X	X						
2020	Deka & Brown	America		X							X		X			X						
2011	Van Acker & Witlox	Belgium		X							X			X				X				
2014	He & Zhang	America		X				X				X				X		X	X			X
2023	Kissi et al.	Ghana	X				X					X				X						

2020	Yu et al.	America	X					X				X				X						
2011	Gim	Korea		X							X	X						X	X			X
2022	Mouratidis & Yiannakou	Multiple countries		X					X					X		X						
2016	Ding & Lu	China		X							X		X					X				
2017	Ding et al.	China		X							X				X	X						
2017	Barile et al.	America		X						X				X		X						
2022	Hu et al.	China		X							X			X		X						
2022	Wang et al.	China		X				X				X				X						
2017	Hahm et al.	Korea		X			X					X						X				
2023	Kim et al.	Korea		X						X			X			X	X					
2022	Aguilera-Garcia et al.	Spain	X								X	X				X						
2019	Mitra & Saphores	America		X							X	X				X				X		X
2021	Lee	Korea		X					X				X			X						
2021	Alberto Ortiz-Ramirez et al.	Colombia		X					X			X				X						
2019	Wei et al.	China		X					X				X			X						
2021	Duran-Rodas et al.	German		X				X				X							X			
2022	Karimi & Emami	Iran			X				X				X			X						
2021	Liu et al.	China			X			X				X							X		X	
2018	Liu et al.	China		X				X					X								X	
2016	Yu & Zhu	America		X					X				X			X						
2014	Van Acker et al.	Belgium		X							X	X				X						
2021	Hu et al.	China		X							X			X		X			X			X
2020	Cheng et al.	China		X			X								X				X			
2017	Liu et al.	China		X				X				X						X	X			X
2023	Kim et al.	Multiple	X						X					X		X						

		countries																				
2022	Chen et al.	China		X						X			X			X						
2020	Oviedo & Sabogal	Nigeria		X					X			X				X						
2020	Zheng et al.	China		X						X				X		X						
2018	Putra	Indonesia		X				X				X				X						
2022	Chung & Kim	Korea	X						X				X			X						
2017	Rosiers et al.	Canada		X				X				X							X	X		
2022	Xu et al.	China			X				X				X			X						
2022	Zhang et al.	Canada		X					X			X				X						
2021	Ali et al.	Indonesia		X						X				X		X		X				
2021	Mitra et al.	America	X								X			X		X		X				
2022	Rissetto et al.	German	X						X			X				X						
2023	Rahman et al.	Bangladesh		X			X					X				X			X			X
2020	Etminani-Ghasrodashti & Hamidi	Iran		X							X	X						X				
2022	Fan et al.	China		X					X			X				X						
2018	Feng et al.	China		X					X			X				X						
2020	Hjorteset & Böcker	Norway	X						X				X	X		X						
2021	van de Coevering et al.	Netherlands		X							X	X						X	X			X
2019	Zhang et al.	Japan		X					X			X				X						
2023	Jing et al.	China			X					X			X			X			X			X
2022	Sun et al.	China	X					X				X								X		
2021	Lucchesi et al.	Brazil			X				X					X		X						
2020	Mahmoudi & Zhang	America		X			X							X				X	X			X
2022	Rafiq & McNally	America	X								X	X							X	X		

2021	Bielińska-Dusza et al.	Poland		X					X			X				X						
2019	Jiang et al.	China		X				X				X				X						
2022	Astroza et al.	Chile		X						X		X				X						
2020	Hatamzadeh et al.	Iran		X							X		X			X			X			X
2022	Jiang et al.	China		X					X			X				X						
2020	Tao et al.	China		X						X			X	X		X			X			X
2018	Lin et al.	China		X							X	X						X				
2020	Liang et al.	China			X	X							X						X			
2018	Yang & Cao	China		X				X					X								X	
2018	Mouratidis	Norway		X					X			X				X			X			X
2023	Wang et al.	China	X					X						X						X		
2023	Choi et al.	Korea		X					X				X			X			X			X
2019	Zhang et al.	China		X							X		X			X			X			X
2023	Xu & Chen	China			X			X						X		X			X			X
2021	Wang et al.	America		X							X	X				X						
2023	Chen et al.	China			X					X		X				X						
2022	Yang & Vaughan	China		X			X						X						X			
2023	Ding et al.	China		X				X					X							X		
2023	Daoud et al.	Egypt	X					X				X				X						
2022	Yadav et al.	India			X		X						X						X			
2022	Azmi et al.	Malaysia			X				X					X		X						
2022	Etminani-Ghasrodashti et al.	America	X							X		X							X		X	
2016	Etminani-Ghasrodashti & Ardeshiri	Iran			X						X			X		X			X			X
2013	Wang	America		X			X					X							X	X		

2016	Zhao et al.	China		X							X	X				X			X			X
2016	Sun et al.	China	X							X			X							X		
2013	Wang & Lin	China		X							X	X								X		
2016	van de Coevering et al.	Netherlands		X							X	X				X						
2016	Cao	America		X					X			X				X						
2015	Yu & Zhu	America		X					X			X				X						
2017	Cao & Yang	China		X							X		X						X		X	
2017	Ortegón-Cortázar & Royo-Vela	Colombia		X			X					X				X						
2011	Chopra & Kanji	unmentioned	X			X						X				X						
2023	Agboola & Tunay	Nigeria		X				X				X				X						
2024	Jiang et al.	China		X					X				X			X						
2023	Xu et al.	China		X						X			X			X						
2023	Zhang et al.	China		X					X						X	X						
2024	Yang et al.	China			X		X					X									X	
2023	Wu et al.	China		X						X			X			X						
2024	Jiang et al.	China			X					X				X		X						
2024	Mepparambath et al.	Singapore			X		X						X			X						
2024	Liu et al.	China	X							X			X			X						
2023	Takyi-Annan & Zhang	Ghana	X				X					X				X						
2023	Oyewobi et al.	Nigeria	X				X					X				X						
2024	Guo et al.	China		X							X		X			X			X		X	X
2024	Hui et al.	China			X				X			X				X						
2024	Qin et al.	China			X	X							X						X			

2023	Tan et al.	China	X					X					X	X						X		
2023	Gim	Korea		X							X		X							X		
2023	Li et al.	China			X					X			X			X						
2023	Vallejo-Borda et al.	Colombia			X						X	X				X			X			X
2023	Lin et al.	China		X							X	X				X						
2024	Bivina & Parida	India			X		X							X		X						
2024	Yin et al.	China		X					X				X			X						
2024	Khademi et al.	Iran		X			X					X				X			X			X
2024	Sha & Cheng	China		X		X						X				X						
2023	Sonta & Jiang	America		X			X					X							X	X		
2023	Chen et al.	China		X					X				X			X						
2024	Zhou et al.	China			X				X				X			X						
2024	Deng et al.	China	X						X			X				X						
2023	Zhou et al.	China		X			X					X				X			X			X
2023	Aljarallah et al.	Saudi Arabia	X				X					X				X						
2024	Rahman & Antipova	America	X					X					X						X			
2024	Lu et al.	China		X							X		X			X						
2023	Ji et al.	China			X					X			X			X						
2023	Li et al.	China		X			X					X				X						
2023	Cui et al.	China		X							X				X	X						
2024	Mascherek et al.	German		X						X		X									X	
2024	Choobchian et al.	America		X			X					X							X	X		
2024	Sun et al.	China		X						X		X				X						
2023	Li et al.	China			X				X				X			X						
2020	Liu et al.	China		X				X					X			X					X	X
2023	Wei et al.	China			X				X					X		X			X			X

2023	Wu & Chen	China	X						X				X			X					X	X
2019	Zhang & Tan	Singapore		X							X		X			X						
2022	Yin et al.	China		X		X							X						X			
2020	Chang et al.	China		X					X				X			X						
2024	Cardinali et al.	Multiple countries	X							X			X			X					X	X
2022	Guo et al.	China		X							X		X	X		X						
2019	Wang et al.	Finland		X							X		X			X						
2018	Li et al.	America		X		X						X		X		X						
2024	Li & Liu	China			X						X		X	X		X			X			X
2021	Nghiem et al.	Singapore			X					X			X			X						
2020	Lak et al.	Iran			X				X			X				X						
2024	Wang et al.	China			X					X			X	X		X		X				
2023	Rudincova et al.	Czechia			X				X					X	X	X						
2021	Huang et al.	China		X							X		X			X						
2024	Chang et al.	China		X							X		X			X						
2023	Fang et al.	America		X		X						X			X				X		X	
2023	Guo et al.	China		X						X			X			X						
2022	Liu et al.	China			X					X			X			X						
2022	Song et al.	China			X				X				X			X			X			X
2022	Zhou et al.	China			X					X			X	X		X						
2024	McGrath et al.	Australia		X					X				X			X						
2015	Huang et al.	China			X	X						X							X			
2017	Deng et al.	America		X					X				X			X						
2022	Tokue et al.	Japan			X	X						X				X			X			X
2015	Hong & Jeon	Korea			X				X			X		X		X						
2022	Hasegawa & Lau	Singapore	X						X			X		X		X						
2022	Zhang et al.	Singapore	X							X			X			X						

2019	Liu et al.	China		X						X			X			X					X	X
2019	Liu et al.	China		X				X				X		X							X	X	
2024	Rao et al.	China			X				X				X			X					X	X
2016	Lee	Korea			X						X		X			X					X	X
2022	Liu et al.	China		X							X		X			X						
2020	Marshall et al.	Australia		X					X			X				X						
2021	Guo et al.	China		X						X			X			X						
2023	Wang et al.	England			X					X			X				X					
2016	Ferreira et al.	Sweden		X							X		X			X						
2023	Koohsari et al.	Canada		X							X		X			X						
2020	Lu et al.	China	X			X						X							X		X	
2023	Escola-Gascon et al.	Spain		X					X				X			X						
2018	Palardy et al.	America			X				X			X				X						
2023	Subiza-Perez et al.	Spain		X						X		X		X		X						
2022	Wang & Liu	China		X				X					X			X			X		X	X
2022	He et al.	China			X					X			X	X		X						
2022	Mullenbach et al.	America	X						X				X			X				X		X
2022	Krols et al.	Belgium		X						X			X			X						
2022	Zhang et al.	China		X						X			X			X						
2021	Sugiyama et al.	Japan		X					X			X				X						
2023	Van Truong et al.	Japan	X						X				X			X						
2020	Young et al.	Switzerland		X						X		X				X						
2011	Rooney & Bayley	Canada			X	X						X							X			
2016	Huang & Cadenasso	America		X		X							X							X	X	
2019	Cubino et al.	America		X		X							X						X		X	
2015	Mammides et al.	Cyprus			X	X							X						X		X	

2016	Harvey et al.	America			X	X							X								X	
2023	Shirkey et al.	America			X	X						X							X		X	
2024	Wu et al.	China	X						X				X			X						
2024	Suarez-Castro et al.	Australia			X	X							X						X		X	
2024	Wu et al.	China		X		X									X						X	
2018	Little & Altermatt	Switzerland			X	X						X		X							X	
2019	Tian et al.	China			X		X					X									X	
2020	Nicolas et al.	Multiple countries	X					X				X									X	
2017	Chou et al.	China		X				X				X				X						
2020	Li et al.	China		X				X				X				X						
2024	Shahangian et al.	Iran		X							X			X	X	X						
2021	Hawken et al.	Multiple countries	X					X						X		X						